

**FIXTURE FOR FIXING CAMERA AND THE LIKES CAPABLE
OF ADJUSTING THE PITICHING ANGLE OF THE CAMERA**

BACKGROUND OF THE INVENTION

Field of the Invention

5 The present invention relates to a fixture for fixing camera or the likes, and more particularly to a fixture being capable of adjusting the pitching angle of the camera.

Description of the Prior Arts

 At present, there are many varieties of fixtures for fixing camera
10 and the likes, which varies from one-foot stand, G-shaped stand to tripod, the common feature of these conventional fixtures is that it needs to be placed on a flat surface and can not be fixed to a strip-shaped object, thereby it obviously lacks of applicability. In addition, the camera or the likes which fixed to the conventional fixture only can be single-axially
15 adjusted (crosswise), the vertical adjustment of which should be relied on the falling and rising adjustment of the stand (fixture). After the stand is fixed, the pitching angle of the camera on it cannot be adjusted anymore, thereby it is inconvenient for using.

 The present invention has arisen to mitigate and/or obviate the
20 afore-described disadvantages of the conventional fixture for fixing camera and the likes.

SUMMARY OF THE INVENTION

 In accordance with one aspect of the present invention, there is

provided with a fixture for fixing camera and the likes which is capable of adjusting the fixing angle and generally comprising: a coupling device, an universal joint, a platform, a fixing member and a locking assembly. Wherein the coupling device is provided with concave gaps so as to
5 engage with strip-shape objects, by virtue of the fixing member together with locking assembly the platform is able to revolve round the universal joint, thereby the camera fixed on the platform can be vertically, laterally or even irregularly adjusted according to the user's needs.

The present invention will become more obvious from the
10 following description when taken in connection with the accompanying drawings, which shows, for purpose of illustrations only, the preferred embodiment in accordance with the present invention.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is an exploded view of a fixture for fixing camera and the
15 likes in accordance with the present invention;

Fig. 2 is a perspective view of the fixture for fixing camera and the likes in accordance with the present invention;

Fig. 3 is a perspective view of showing the fixture for fixing camera and the likes of the present invention being fixing to the
20 handlebar of a bike;

Fig. 4 is a cross sectional view of the fixture for fixing camera and the likes of the present invention;

Fig. 5 is another cross sectional view of the fixture for fixing

21 of the universal joint 20. Furthermore, an engaging device 34 is disposed adjacent to the coupling portion 32 which inserting through the platform 30. The engaging device 34 includes an engaging rod 341, a C-shape retainer ring 342 and knob 343, which rotatably passes through the platform 30 with an end protruding out of the antiskid member 31 and fixed at a side of the platform 30 by virtue of the C-shape retainer ring 342. Another end of the engaging rod 341 also protrudes out of the platform 30 and be fixed at another side of the same by virtue of the knob 343. The engaging rod 341, on which, is provided for fixing a video camera or the likes.

The fixing member 40 has a first end fixed to the coupling portion 32 of the platform 30 by virtue of bolts 41, a second end of which is provided with a through hole 42 having a flange 421 formed on the internal surface thereof. Proximate to the center of the fixing member 40 thereof is formed with a semi-spherical cavity 43 for receiving part of the head portion 21 of the universal joint 20, such that the head portion 21 of the universal joint 20 may be received between the semi-spherical cavity 43 of the fixing member 40 and the semi-spherical cavity 33 of the platform 30, and meanwhile, the platform 30 will be revolvable round the universal joint 20.

The locking assembly 50 includes a locking rod 51 and foldable rod 52. The locking rod 51 has a first end for inserting through the through hole 42 of the fixing member 40 and screwing in the tightener

322 of the platform 30 and a second end defined with an abutting portion 511, the end surface of the abutting portion 511 is corresponding to the flange 421 of the through hole 42. In the abutting portion 511 thereof a notch 512 is defined. The foldable rod 52 has an end inserted in the notch 512 by passing a pin 53 through the internal surface 513 and the foldable rod 52, such that the foldable rod 52 can be foldable along the notch 512. Furthermore, the foldable rod 52 may be covered with a sleeve 54 for facilitating holding.

Referring further to Figs. 3-5, wherein the engaging rod 341 serves for fixing camera 60 while the curved gap 111, 121 of the first and second coupling member 11, 12 of the coupling device 10 are employed to engaging with a handlebar 71 of the bike 70. To adjust the shoot angle of the camera 60, the locking assembly 50 needs to be loosened initially, so as to loosen the tightness among the head portion 21 of the universal joint 20, the semi-spherical cavity 33 of the platform 30 and the semi-spherical cavity 43 of the fixing member 40. In other words, the platform 30 and the head portion 21 of the universal joint 20 are engaged with each other. The user then can adjust the shoot angle of the camera 60 as needs. After adjustment, the locking assembly 50 should be locked so as to tighten the combination between the coupling portion 32 of the platform 30 and the fixing member 40, meanwhile, firmly clamping the head portion 21 of the universal joint 20, such that the platform 30 is fixed. Thereby, based on the same operation way and together with the

head portion 21 of the universal joint 20, the platform 30 can be vertically, laterally and even irregular direction adjusted.

On the other hand, since the fixture of the present invention can be fixed to rod members, such as handlebar of bikes, cross rod of glider
5 and so on, the camera is able to take photo in action according to user's needs.

It will be noted that, with reference to Fig. 6, after the adjustment of the shoot angle of the camera 60, the locking assembly 50 is locked. Since the foldable rod 52 of the locking assembly 50 may be
10 foldable along the notch 512 of the locking rod 51, the foldable rod 52 can be folded so as to save space after the locking assembly 50 is locked.

While we have shown and described various embodiments in accordance with the present invention, it should be clear to those skilled in the art that further embodiments may be made without departing from
15 the scope of the present invention.